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1 Queries: Predicting query performance

Steve Cronen-Townsend, Yun Zhou, W. Bruce Croft

August 2002 Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(258.74 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We develop a method for predicting query performance by computing the relative entropy between a query language model and the corresponding collection language model. The resulting *clarity score* measures the coherence of the language usage in documents whose models are likely to generate the query. We suggest that clarity scores measure the ambiguity of a query with respect to a collection of documents and show that they correlate positively with average precision in a variety of TREC tes ...

Keywords: ambiguity, clarity, information theory, language models

Poster papers - short papers: The link prediction problem for social networks David Liben-Nowell, Jon Kleinberg

November 2003 Proceedings of the twelfth international conference on Information and knowledge management

Full text available: pdf(85.72 KB)

Additional Information: full citation, abstract, references, index terms

Given a snapshot of a social network, can we infer which new interactions among its members are likely to occur in the near future? We formalize this question as the *link prediction problem*, and develop approaches to link prediction based on measures the "proximity" of nodes in a network. Experiments on large co-authorship networks suggest that information about future interactions can be extracted from network topology alone, and that fairly subtle measures for detecting node proximity c ...

Keywords: link analysis, link prediction, social networks

³ Predicting the performance of linearly combined IR systems

Christopher C. Vogt, Garrison W. Cottrell

August 1998 Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: 📆 pdf(896.96 KB) Additional Information: full citation, references, citings, index terms

An efficient boosting algorithm for combining preferences

Yoav Freund, Raj Iyer, Robert E. Schapire, Yoram Singer

December 2003 The Journal of Machine Learning Research, Volume 4

Full text available: pdf(392.20 KB) Additional Information: full citation, abstract, index terms

We study the problem of learning to accurately rank a set of objects by combining a given collection of ranking or preference functions. This problem of combining preferences arises in several applications, such as that of combining the results of different search engines, or the "collaborative-filtering" problem of ranking movies for a user based on the movie rankings provided by other users. In this work, we begin by presenting a formal framework for this general problem. We then describe and ...

⁵ Tree induction vs. logistic regression: a learning-curve analysis

Claudia Perlich, Foster Provost, Jeffrey S. Simonoff

December 2003 The Journal of Machine Learning Research, Volume 4

Full text available: pdf(263.37 KB) Additional Information: full citation, abstract, citings, index terms

Tree induction and logistic regression are two standard, off-the-shelf methods for building models for classification. We present a large-scale experimental comparison of logistic regression and tree induction, assessing classification accuracy and the quality of rankings based on class-membership probabilities. We use a learning-curve analysis to examine the relationship of these measures to the size of the training set. The results of the study show several things. (1) Contrary to some prior o ...

6 Technique for automatically correcting words in text

Karen Kukich

December 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 4

Full text available: pdf(6.23 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

7 Evaluating collaborative filtering recommender systems

Jonathan L. Herlocker, Joseph A. Konstan, Loren G. Terveen, John T. Riedl January 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 1

Full text available: pdf(253.92 KB) Additional Information: full citation, abstract, references, index terms

Recommender systems have been evaluated in many, often incomparable, ways. In this article, we review the key decisions in evaluating collaborative filtering recommender systems: the user tasks being evaluated, the types of analysis and datasets being used, the ways in which prediction quality is measured, the evaluation of prediction attributes other than quality, and the user-based evaluation of the system as a whole. In addition to reviewing the evaluation strategies used by prior researchers ...

Keywords: Collaborative filtering, evaluation, metrics, recommender systems

8 Modeling transcription programs: inferring binding site activity and dose-response model optimization

Amos Tanay, Ron Shamir



April 2003 Proceedings of the seventh annual international conference on Computational molecular biology

Full text available: 🔂 pdf(277.65 KB) Additional Information: full citation, abstract, references, index terms

The modeling of transcription regulation programs is a major focus of today's biology. The challenge is to utilize diverse high-throughput data (gene expression, promoter binding site localization assays, protein expression) in order to infer the mechanistic models of transcription control. We propose a new model which integrates transcription factor-gene affinities, protein abundance and gene expression levels. Transcription factor binding site activity is represented by a dose-affinity-respons ...

9 Modeling user behavior: Predicting human interruptibility with sensors: a Wizard of Oz feasibility study



Scott Hudson, James Fogarty, Christopher Atkeson, Daniel Avrahami, Jodi Forlizzi, Sara Kiesler, Johnny Lee, Jie Yang

April 2003 Proceedings of the conference on Human factors in computing systems

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(727.56 KB) terms

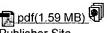
A person seeking someone else's attention is normally able to quickly assess how interruptible they are. This assessment allows for behavior we perceive as natural, socially appropriate, or simply polite. On the other hand, today's computer systems are almost entirely oblivious to the human world they operate in, and typically have no way to take into account the interruptibility of the user. This paper presents a Wizard of Oz study exploring whether, and how, robust sensor-based predictions of ...

Keywords: context-aware computing, machine learning, sensor-based interfaces, situationally appropriate interaction

10 Special issue on using large corpora: II: Coping with ambiguity and unknown words through probabilistic models



Ralph Weischedel, Richard Schwartz, Jeff Palmucci, Marie Meteer, Lance Ramshaw June 1993 Computational Linguistics, Volume 19 Issue 2



Full text available: Additional Information: full citation, abstract, references

From spring 1990 through fall 1991, we performed a battery of small experiments to test the effectiveness of supplementing knowledge-based techniques with probabilistic models. This paper reports our experiments in predicting parts of speech of highly ambiguous words, predicting the intended interpretation of an utterance when more than one interpretation satisfies all known syntactic and semantic constraints, and learning caseframe information for verbsfrom example uses. From these experiments, w ...

11 A study of smoothing methods for language models applied to information retrieval Chengxiang Zhai, John Lafferty



April 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 2

Full text available: 🔁 pdf(296.22 KB) Additional Information: full citation, abstract, references, index terms

Language modeling approaches to information retrieval are attractive and promising because they connect the problem of retrieval with that of language model estimation, which has been studied extensively in other application areas such as speech recognition. The basic idea of these approaches is to estimate a language model for each document, and to then rank documents by the likelihood of the query according to the estimated language model. A central issue in language model estimation is smo ...

Keywords: Dirichlet prior smoothing, EM algorithm, Jelinek--Mercer smoothing, Statistical language models, TF-IDF weighting, absolute discounting smoothing, backoff smoothing, interpolation smoothing, leave-one-out, risk minimization, term weighting, two-stage smoothing

12 Comprehensive statistical method for protein fold recognition



Full text available: pdf(1.08 MB)

Additional Information: full citation, abstract, references

We present a protein fold recognition method that uses a comprehensive statistical interpretation of structural Hidden Markov Models (HMMs). The structure/fold recognition is done by summing the probabilities of all sequence-to-structure alignments Conventionally, Boltzmann statistics dictate that the optimal alignment can give an estimate of the lowest free energy of the sequence conformation imposed by the structural model. The alignment is optimized for a scoring function that is interpret ...

13 Improving statistical language model performance with automatically generated word hierarchies



John G. McMahon, Francis J. Smith

June 1996 Computational Linguistics, Volume 22 Issue 2

Publisher Site

Full text available: pdf(2.02 MB) Additional Information: full citation, abstract, references, citings

An automatic word-classification system has been designed that uses word unigram and bigram frequency statistics to implement a binary top-down form of word clustering and employs an average class mutual information metric. Words are represented as structural tags---n-bit numbers the most significant bit-patterns of which incorporate class information. The classification system has revealed some of the lexical structure of English, as well as some phonemic and semantic structure. The syst ...

14 Challenges in information retrieval and language modeling: report of a workshop held at the center for intelligent information retrieval, University of Massachusetts Amherst, September 2002



James Allan, Jay Aslam, Nicholas Belkin, Chris Buckley, Jamie Callan, Bruce Croft, Sue Dumais, Norbert Fuhr, Donna Harman, David J. Harper, Djoerd Hiemstra, Thomas Hofmann, Eduard Hovy, Wessel Kraaij, John Lafferty, Victor Lavrenko, David Lewis, Liz Liddy, R. Manmatha, Andrew McCallum, Jay Ponte, John Prager, Dragomir Radev, Philip Resnik, Stephen Robertson, Roni Rosenfeld, Salim Roukos, Mark Sanderson, Rich Schwartz, Amit Singhal, Alan Smeaton, Howard Turtle, Ellen Voorhees, Ralph Weischedel, Jinxi Xu, ChengXiang Zhai April 2003 ACM SIGIR Forum, Volume 37 Issue 1

Full text available: pdf(1.60 MB) Additional Information: full citation

15 Automatic combination of multiple ranked retrieval systems

Brian T. Bartell, Garrison W. Cottrell, Richard K. Belew

August 1994 Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(834.64 KB) Additional Information: full citation, references, citings, index terms

16 Music information retrieval: Harmonic models for polyphonic music retrieval Jeremy Pickens, Tim Crawford

November 2002 Proceedings of the eleventh international conference on Information and knowledge management

Full text available: pdf(155.14 KB) Additional Information: full citation, abstract, references, citings

Most work in the ad hoc music retrieval field has focused on the retrieval of monophonic documents using monophonic queries. Polyphony adds considerably more complexity. We present a method by which polyphonic music documents may be retrieved by polyphonic music queries. A new harmonic description technique is given, wherein the information from all chords, rather than the most significant chord, is used. This description is then combined in a new and unique way with Markov statistical methods t ...

17 Dependency networks for inference, collaborative filtering, and data visualization David Heckerman, David Maxwell Chickering, Christopher Meek, Robert Rounthwaite, Carl Kadie



September 2001 The Journal of Machine Learning Research, Volume 1

Full text available: pdf(337.07 KB) Additional Information: full citation, abstract

We describe a graphical model for probabilistic relationships--an alternative to the Bayesian network--called a dependency network. The graph of a dependency network, unlike a Bayesian network, is potentially cyclic. The probability component of a dependency network, like a Bayesian network, is a set of conditional distributions, one for each node given its parents. We identify several basic properties of this representation and describe a computationally efficient procedure for learning the gra ...

18 Research track: Nantonac collaborative filtering: recommendation based on order responses

Toshihiro Kamishima

August 2003 Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining

Full text available: pdf(134.24 KB) Additional Information: full citation, abstract, references, index terms

A recommender system suggests the items expected to be preferred by the users. Recommender systems use collaborative filtering to recommend items by summarizing the preferences of people who have tendencies similar to the user preference. Traditionally, the degree of preference is represented by a scale, for example, one that ranges from one to five. This type of measuring technique is called the semantic differential (SD) method. Web adopted the ranking method, however, rather than the SD metho ...

Keywords: collaborative filtering, order, recommender system

19 Accurate static estimators for program optimization

Tim A. Wagner, Vance Maverick, Susan L. Graham, Michael A. Harrison June 1994 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1994 conference on Programming language design and implementation, Volume 29 Issue 6

Full text available: pdf(1.04 MB)

Additional Information: full citation, abstract, references, citings, index terms

Determining the relative execution frequency of program regions is essential for many important optimization techniques, including register allocation, function inlining, and instruction scheduling. Estimates derived from profiling with sample inputs are generally regarded as the most accurate source of this information; static (compile-time) estimates are considered to be distinctly inferior. If static estimates were shown to be competitive, however, their convenience would outweigh minor ...

20 Searching the Web

August 2001 ACM Transactions on Internet Technology (TOIT), Volume 1 Issue 1

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(319.98 KB) terms, review

We offer an overview of current Web search engine design. After introducing a generic search engine architecture, we examine each engine component in turn. We cover crawling, local Web page storage, indexing, and the use of link analysis for boosting search performance. The most common design and implementation techniques for each of these components are presented. For this presentation we draw from the literature and from our own experimental search engine testbed. Emphasis is on introduci ...

Keywords: HITS, PageRank, authorities, crawling, indexing, information retrieval, link analysis, search engine

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1 Tree induction vs. logistic regression: a learning-curve analysis Claudia Perlich, Foster Provost, Jeffrey S. Simonoff

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December 2003 The Journal of Machine Learning Research, Volume 4

Full text available: pdf(263.37 KB) Additional Information: full citation, abstract, citings, index terms

Tree induction and logistic regression are two standard, off-the-shelf methods for building models for classification. We present a large-scale experimental comparison of logistic regression and tree induction, assessing classification accuracy and the quality of rankings based on class-membership probabilities. We use a learning-curve analysis to examine the relationship of these measures to the size of the training set. The results of the study show several things. (1) Contrary to some prior o ...

2 Technique for automatically correcting words in text Karen Kukich

December 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 4

Full text available: pdf(6.23 MB)

Additional Information: full citation, abstract, references, citings, index

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-

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Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

3 <u>Modeling user behavior: Predicting human interruptibility with sensors: a Wizard of Oz</u> feasibility study

Scott Hudson, James Fogarty, Christopher Atkeson, Daniel Avrahami, Jodi Forlizzi, Sara Kiesler, Johnny Lee, Jie Yang

April 2003 Proceedings of the conference on Human factors in computing systems

Full text available: pdf(727.56 KB)

Additional Information: full citation, abstract, references, citings, index terms

A person seeking someone else's attention is normally able to quickly assess how interruptible they are. This assessment allows for behavior we perceive as natural, socially appropriate, or simply polite. On the other hand, today's computer systems are almost





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4 Special issue on using large corpora: II: Coping with ambiguity and unknown words through probabilistic models



Ralph Weischedel, Richard Schwartz, Jeff Palmucci, Marie Meteer, Lance Ramshaw June 1993 Computational Linguistics, Volume 19 Issue 2

Publisher Site

Full text available: pdf(1.59 MB) Additional Information: full citation, abstract, references

From spring 1990 through fall 1991, we performed a battery of small experiments to test the effectiveness of supplementing knowledge-based techniques with probabilistic models. This paper reports our experiments in predicting parts of speech of highly ambiguous words, predicting the intended interpretation of an utterance when more than one interpretation satisfies all known syntactic and semantic constraints, and learning caseframe informationfor verbsfrom example uses. From these experiments, w ...

5 Dependency networks for inference, collaborative filtering, and data visualization David Heckerman, David Maxwell Chickering, Christopher Meek, Robert Rounthwaite, Carl Kadie



September 2001 The Journal of Machine Learning Research, Volume 1

Full text available: pdf(337.07 KB) Additional Information: full citation, abstract

We describe a graphical model for probabilistic relationships--an alternative to the Bayesian network--called a dependency network. The graph of a dependency network, unlike a Bayesian network, is potentially cyclic. The probability component of a dependency network, like a Bayesian network, is a set of conditional distributions, one for each node given its parents. We identify several basic properties of this representation and describe a computationally efficient procedure for learning the gra ...

6 Improving statistical language model performance with automatically generated word hierarchies



John G. McMahon, Francis J. Smith

June 1996 Computational Linguistics, Volume 22 Issue 2



Additional Information: full citation, abstract, references, citings

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7 Recommender systems using linear classifiers

Tong Zhang, Vijay S. Iyengar

March 2002 The Journal of Machine Learning Research, Volume 2

Full text available: pdf(213.65 KB)

Additional Information: full citation, abstract, references, citings, index terms.

Recommender systems use historical data on user preferences and other available data on users (for example, demographics) and items (for example, taxonomy) to predict items a new user might like. Applications of these methods include recommending items for purchase and personalizing the browsing experience on a web-site. Collaborative filtering

methods have focused on using just the history of user preferences to make the recommendations. These methods have been categorized as memory-based Keywords: collaborative filtering, decision trees, linear models, recommender systems, unbalanced data

8 Classification and regression: money *can* grow on trees

Johannes Gehrke, Wie-Yin Loh, Raghu Ramakrishnan

August 1999 Tutorial notes of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining

Full text available: pdf(2.95 MB)

Additional Information: full citation, abstract, references, citings, index

With over 800 million pages covering most areas of human endeavor, the World-wide Web is a fertile ground for data mining research to make a difference to the effectiveness of information search. Today, Web surfers access the Web through two dominant interfaces clicking on hyperlinks and searching via keyword queries This process is often tentative and unsatisfactory Better support is needed for expressing one's information need and dealing with a search result in more structured ways than ...

9 Information extraction: Is question answering an acquired skill? Ganesh Ramakrishnan, Soumen Chakrabarti, Deepa Paranjpe, Pushpak Bhattacharya May 2004 Proceedings of the 13th conference on World Wide Web

Full text available: pdf(260.13 KB) Additional Information: full citation, abstract, references, index terms

We present a question answering (QA) system which learns how to detect and rank answer passages by analyzing questions and their answers (QA pairs) provided as training data. We built our system in only a few person-months using off-the-shelf components: a part-ofspeech tagger, a shallow parser, a lexical network, and a few well-known supervised learning algorithms. In contrast, many of the top TREC QA systems are large group efforts, using customized ontologies, question classifiers, and highl ...

Keywords: machine learning, question answering

10 Learning and making decisions when costs and probabilities are both unknown Bianca Zadrozny, Charles Elkan

August 2001 Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining

Full text available: pdf(920.23 KB)

Additional Information: full citation, abstract, references, citings, index terms

In many data mining domains, misclassification costs are different for different examples, in the same way that class membership probabilities are example-dependent. In these domains, both costs and probabilities are unknown for test examples, so both cost estimators and probability estimators must be learned. After discussing how to make optimal decisions given cost and probability estimates, we present decision tree and naive Bayesian learning methods for obtaining well-calibrated probability ...

11 Automated assistants to aid humans in understanding team behaviors Taylor Raines, Milind Tambe, Stacy Marsella

June 2000 Proceedings of the fourth international conference on Autonomous agents

Full text available: pdf(1.09 MB) Additional Information: full citation, references, index terms

12 Accurate static estimators for program optimization Tim A. Wagner, Vance Maverick, Susan L. Graham, Michael A. Harrison June 1994 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1994 conference on Programming language design and implementation, Volume 29 Issue 6

Full text available: pdf(1.04 MB)

Additional Information: full citation, abstract, references, citings, index terms

Determining the relative execution frequency of program regions is essential for many important optimization techniques, including register allocation, function inlining, and instruction scheduling. Estimates derived from profiling with sample inputs are generally regarded as the most accurate source of this information; static (compile-time) estimates are considered to be distinctly inferior. If static estimates were shown to be competitive, however, their convenience would outweigh minor ...

13 Magical thinking in data mining: lessons from ColL challenge 2000 Charles Elkan

August 2001 Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining

Full text available: pdf(602.56 KB)

Additional Information: full citation, abstract, references, citings, index

CoIL challenge 2000 was a supervised learning contest that attracted 43 entries. The authors of 29 entries later wrote explanations of their work. This paper discusses these reports and reaches three main conclusions. First, naive Bayesian classifiers remain competitive in practice: they were used by both the winning entry and the next best entry. Second, identifying feature interactions correctly is important for maximizing predictive accuracy: this was the difference between the winning classi ...

14 Improving accuracy in word class tagging through the combination of machine learning systems



Hans van Halteren, Walter Daelemans, Jakub Zavrel June 2001 Computational Linguistics, Volume 27 Issue 2

Full text available: pdf(2.37 MB) Additional Information: full citation, abstract, references

We examine how differences in language models, learned by different data-driven systems performing the same NLP task, can be exploited to yield a higher accuracy than the best individual system. We do this by means of experiments involving the task of morphosyntactic word class tagging, on the basis of three different tagged corpora. Four well-known tagger generators (hidden Markov model, memory-based, transformation rules, and maximum entropy) are trained on the same corpus data. After comparis ...

15 Automatic combination of multiple ranked retrieval systems

Brian T. Bartell, Garrison W. Cottrell, Richard K. Belew

August 1994 Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(834.64 KB) Additional Information: full citation, references, citings, index terms

16 Computational strategies for object recognition

Paul Suetens, Pascal Fua, Andrew J. Hanson

March 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 1

Full text available: pdf(6.37 MB)

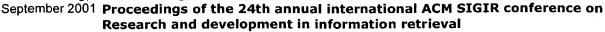
Additional Information: full citation, abstract, references, citings, index terms, review

This article reviews the available methods for automated identification of objects in digital images. The techniques are classified into groups according to the nature of the computational strategy used. Four classes are proposed: (1) the simplest strategies, which work on data appropriate for feature vector classification, (2) methods that match models to symbolic data structures for situations involving reliable data and complex models, (3) approaches that fit models to the photometry and ...

Keywords: image understanding, model-based vision, object recognition

17 Stable algorithms for link analysis

Andrew Y. Ng, Alice X. Zheng, Michael I. Jordan



Full text available: pdf(208.24 KB)

Additional Information: full citation, abstract, references, citings, index terms

The Kleinberg HITS and the Google PageRank algorithms are eigenvector methods for identifying ``authoritative" or ``influential" articles, given hyperlink or citation information. That such algorithms should give reliable or consistent answers is surely a desideratum, and in~\cite{ijcaiPaper}, we analyzed when they can be expected to give stable rankings under small perturbations to the linkage patterns. In this paper, we extend the analysis and show how it gives insight into ways of de ...

18 Models of translational equivalence among words

I. Dan Melamed

June 2000 Computational Linguistics, Volume 26 Issue 2

Full text available: pdf(1.89 MB) Additional Information: full citation, abstract, references
Publisher Site

Parallel texts (bitexts) have properties that distinguish them from other kinds of parallel data. First, most words translate to only one other word. Second, bitext correspondence is typically only partial---many words in each text have no clear equivalent in the other text. This article presents methods for biasing statistical translation models to reflect these properties. Evaluation with respect to independent human judgments has confirmed that translation models biased in this fashion are si ...

19 Top-k selection queries over relational databases: Mapping strategies and performance evaluation

Nicolas Bruno, Surajit Chaudhuri, Luis Gravano

June 2002 ACM Transactions on Database Systems (TODS), Volume 27 Issue 2

Full text available: pdf(1.64 MB)

Additional Information: full citation, abstract, references, citings, index terms.

In many applications, users specify target values for certain attributes, without requiring exact matches to these values in return. Instead, the result to such queries is typically a rank of the "top k" tuples that best match the given attribute values. In this paper, we study the advantages and limitations of processing a top-k query by translating it into a single range query that a traditional relational database management system (RDBMS) can process efficiently. In particular, ...

Keywords: Multidimensional histograms, top-k query processing

20 Searching the Web

August 2001 ACM Transactions on Internet Technology (TOIT), Volume 1 Issue 1

Full text available: pdf(319.98 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

We offer an overview of current Web search engine design. After introducing a generic search engine architecture, we examine each engine component in turn. We cover crawling, local Web page storage, indexing, and the use of link analysis for boosting search performance. The most common design and implementation techniques for each of these components are presented. For this presentation we draw from the literature and from our own experimental search engine testbed. Emphasis is on introduci ...

Keywords: HITS, PageRank, authorities, crawling, indexing, information retrieval, link analysis, search engine



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INTRODUCTION

... Predictive capacity of the model is based on measures of dominant ... Table 1. Results of applied model. ... Table 2. Relative rank of suitability scores, higher score ... www.nrac.wvu.edu/rm493-591/ fall2002/students/Thorne/INDEX.HTML.HTM - 101k - Cached - Similar pages

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3 Predictive Data Mining Models

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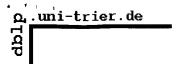
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